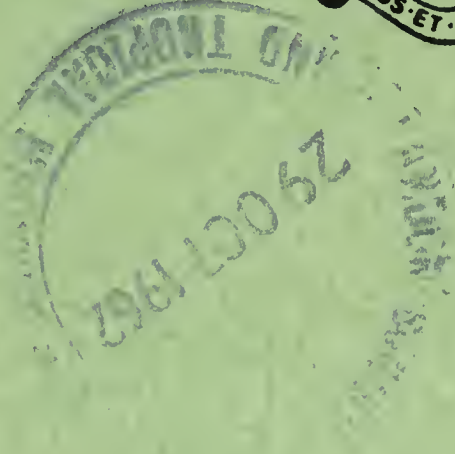


BOROUGH OF



GRAVESEND



**ANNUAL REPORT**  
**OF THE**  
**Medical Officer of Health**  
**FOR THE YEAR 1960**

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**H. S. DAVIES,**  
**M.D., B.S.(LOND.), M.R.C.S., L.R.C.P., D.P.H.**



## HEALTH COMMITTEE, 1960

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THE MAYOR (Councillor L. HARRIS, J.P.)

Councillor MRS. M. O. CREESE, M.B.E., (*Chairman*)

Councillor C. H. SUTOR (*Vice-Chairman*)

Alderman H. DAVIDSON

Alderman P. E. LINES

Alderman MISS A. E. H. JOHNSON, B.E.M.

Alderman R. H. GOODWIN

Councillor E. W. MASTIN

Councillor A. J. COLES

Councillor C. A. WHITE

Councillor MRS. M. E. NEUDEGG

Councillor B. BLACK

Councillor C. W. STRATFORD

Councillor A. O. PARSONS

## HEALTH DEPARTMENT STAFF

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### *Medical Officer of Health*

HERBERT S. DAVIES, M.D., B.S. (Lond.), M.R.C.S., L.R.C.P., D.P.H.

### *Deputy Medical Officer of Health*

DANIEL DESMOND, M.B., B.Ch., D.P.H., (N.U.I.).

### *Chief Public Health Inspector*

\* K. MCINTYRE, M.A.P.H.I.

### *Deputy Chief Public Health Inspector*

\* K. V. SPROAT, M.A.P.H.I.

### *District Public Health Inspectors*

\* M. G. GRAVETT, M.A.P.H.I.

\* J. A. STOKER, M.A.P.H.I.

\* A. G. BRIMBLE, M.A.P.H.I.

### *Pupil Public Health Inspector*

D. HITCHCOCK

### *Clerical Staff*

A. H. BAKER, Chief Clerk to Public Health Inspector

MISS G. PUTTIFER

MRS. P. JONES, Clerk to Medical Officer

MISS J. FIRMIN

NOTE - \* Hold Meat and Food Inspection Certificate.



HEALTH DEPARTMENT,  
WOODVILLE TERRACE,  
GRAVESEND.

MR. MAYOR, MR. CHAIRMAN, LADIES AND GENTLEMEN,

I have much pleasure in presenting to you my Annual Report on the health of Gravesend for the year ended 31st December, 1960.

The Registrar General's estimate of the population is now 49,110. 1,040 live births were registered, the birth rate was 20.12 compared with 18.26 for last year. The death rate was 11.53 and the infant mortality rate 12.5.

Special attention has been given to housing work and a brief summary will be found on pages 26 and 27.

We have been concerned in regard to the pollution of the atmosphere. Investigations have been extended, and following a preliminary survey, a scheme for a smoke control area was submitted to the Minister. This matter is referred to on page 42.

In conclusion, may I express to the Chairman and to every member of the Health Committee my appreciation for the keen interest they have always shown in the work of the Health Department and for their unfailing support throughout the year. My thanks are due also to my staff for their continued enthusiasm and co-operation.

I am, Mr. Mayor, Mr. Chairman, Ladies and Gentlemen,

Your obedient Servant,

H. S. DAVIES,

*Medical Officer of Health*

## SECTION "A"

### STATISTICS AND SOCIAL CONDITIONS OF THE BOROUGH

Area of the Borough (acres)	.. .. .	4,619
Registrar-General's estimate of the Population	.. ..	49,110
Number of separate inhabited houses (at 31.3.61)	.. ..	14,741
Rateable Value (at 31.3.60)	.. .. .	£728,150
Sum represented by a Penny Rate	.. .. .	£2,930

Rates (to 31st March, 1961) - 21s. 0d. in the £

Number of Dwelling Houses built during 1960 -

Corporation	Houses & Flats, etc.	123
Private Enterprise	Houses & Flats	445
" "	Bungalows	134
		<u>702</u>

### INDUSTRIES AND EMPLOYMENT

The chief industries in the locality are - Paper making, cement, light and marine engineering, cable and telegraph works, printing. A number of men are employed in the Merchant Navy, on river craft, and in dock work.

Unemployment has remained at a low level, but statistics which apply only to the Borough are not available.

### REGISTERED LIVE BIRTHS

		Males	Females	Total
Legitimate	.. ..	515	471	986
Illegitimate	.. ..	<u>26</u>	<u>28</u>	<u>54</u>
Total live births	.. ..	<u>541</u>	<u>499</u>	<u>1,040</u>

Crude Birth Rate per 1,000 population - 21.18

## STILL BIRTHS

	Males	Females	Total
Legitimate .. .. .	15	7	22
Illegitimate .. .. .	-	-	-
	<u>15</u>	<u>7</u>	<u>22</u>

Still Birth Rate - i.e., Rate per  
1,000 total (live and still) births - 20.72  
Still Birth Rate per 1,000 population - 0.45

REGISTERED DEATHS - All causes at all ages - 501.

Males	Females	Total
260	241	501

Crude Death Rate per 1,000 population - 10.20  
(The previous year it was 10.27)

DEATHS FROM PUERPERAL CAUSES - Nil

NATURAL INCREASE IN POPULATION (Excess of Births over Deaths) .. 539

INFANT DEATHS - under 1 year of age.

	Males	Females	Total
Legitimate Infants .. .. .	6	7	13
Illegitimate Infants .. .. .	-	-	-
	<u>6</u>	<u>7</u>	<u>13</u>

DEATH RATE OF INFANTS UNDER 1 YEAR OF AGE: -

Infant Mortality Rate, i.e. All infants per 1,000 live births .. 12.50  
Legitimate infants per 1,000 legitimate live births .. 13.18  
Illegitimate infants per 1,000 illegitimate live births .. -

NEO-NATAL MORTALITY RATE (deaths under 4 weeks per 1,000  
total live births) .. .. 9.62

EARLY NEO-NATAL MORTALITY RATE (deaths under 1 week per  
1,000 total live births) .. .. 8.65

PERINATAL MORTALITY RATE (stillbirths and deaths under 1  
week combined per 1,000 total live and stillbirths) .. 29.19

## COMPARATIVE BIRTH AND DEATH RATES

Rates	Gravesend	England and Wales
Birth Rate .. .. .	20.12	17.10
Death Rate .. .. .	11.53	11.50
Infant Mortality Rate .. .. .	12.50	21.90
Still Birth Rate .. .. .	0.45	0.35



# **BOROUGH OF GRAVESEND**

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## **BIRTHS AND DEATHS**

### **BIRTH AND DEATH RATES FOR LAST TEN YEARS**

YEAR	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Number of births	702	767	767	768	773	788	793	855	911	1,040
Crude Birth Rate (per 1,000 population)	15.85	16.95	16.85	16.71	16.66	16.53	16.90	18.32	18.83	21.18
Number of deaths	488	469	481	416	496	495	445	485	497	501
Crude Death rate (per 1,000 population)	11.02	10.36	10.56	9.05	10.69	10.38	9.48	10.39	10.27	10.20



**CAUSES OF DEATH IN GRAVESEND FOR 1960**  
**AS PROVIDED BY THE REGISTRAR GENERAL**

				Male	Female	Total
1.	Tuberculosis, Respiratory	..	..	5	-	5
2.	Tuberculosis, Other forms	..	..	-	-	-
3.	Syphilitic disease	..	..	1	-	1
4.	Diphtheria	..	..	-	-	-
5.	Whooping Cough	..	..	-	-	-
6.	Meningococcal infections	..	..	-	-	-
7.	Acute poliomyelitis	..	..	-	-	-
8.	Measles	..	..	-	-	-
9.	Other infective and parasitic diseases	..	..	1	-	1
10.	Malignant neoplasm, stomach	..	..	7	11	18
11.	Malignant neoplasm, lung, bronchus	..	..	23	4	27
12.	Malignant neoplasm, breast	..	..	-	9	9
13.	Malignant neoplasm, uterus	..	..	-	3	3
14.	Other malignant and lymphatic neoplasms	..	..	26	21	47
15.	Leukaemia, aleukaemia	..	..	3	1	4
16.	Diabetes	..	..	1	4	5
17.	Vascular lesions of nervous system	..	..	33	47	80
18.	Coronary disease, angina	..	..	45	38	83
19.	Hypertension with heart disease	..	..	8	6	14
20.	Other heart disease	..	..	27	40	67
21.	Other circulatory disease	..	..	8	7	15
22.	Influenza	..	..	-	2	2
23.	Pneumonia	..	..	7	6	13
24.	Bronchitis	..	..	23	5	28
25.	Other diseases of respiratory system	..	..	3	1	4
26.	Ulcer of stomach and duodenum	..	..	5	1	6
27.	Gastritis, enteritis and diarrhoea	..	..	-	-	-
28.	Nephritis and nephrosis	..	..	1	1	2
29.	Hyperplasia of prostate	..	..	3	-	3
30.	Pregnancy, childbirth, abortion	..	..	-	-	-
31.	Congenital malformations	..	..	1	2	3
32.	Other defined and ill-defined diseases	..	..	15	28	43
33.	Motor vehicle accidents	..	..	6	-	6
34.	All other accidents	..	..	7	3	10
35.	Suicide	..	..	1	1	2
36.	Homicide and operations of war	..	..	-	-	-
Total - All causes				260	241	501

INFECTION DISEASE NOTIFIED DURING 1960

Disease	Under one year	One and under 3 years	3 and under 5 years	5 and under 10 years	10 and under 15 years	15 and under 25 years	25 and under 45 years	45 and under 65 years	65 years and over	Total	Number Removed to Hospital
Ophthalmia Neonatorum ..	-	-	-	-	-	-	-	-	-	-	-
Dysentery ..	-	1	-	1	-	-	-	-	-	2	-
Erysipelas ..	-	-	-	-	-	-	2	1	1	5	-
Food Poisoning ..	-	-	-	-	-	-	-	-	-	-	-
Measles ..	3	12	2	28	1	-	-	-	-	46	-
Meningococcal Infection ..	-	-	-	-	-	-	-	-	-	-	-
Pneumonia ..	1	5	1	2	-	1	2	10	3	25	-
Acute Poliomyelitis - Paralytic	-	-	-	1	-	-	-	-	-	1	-
Non-Paralytic	-	-	-	-	-	-	-	-	-	-	-
Puerperal Pyrexia ..	-	-	-	-	-	1	-	-	-	1	-
Scarlet Fever ..	-	2	3	20	6	1	3	-	-	35	1
Whooping Cough ..	5	9	11	16	1	-	1	-	-	43	1
Respiratory Tuberculosis ..	-	-	-	-	-	2	12	5	2	21	13
Non-Respiratory Tuberculosis	-	-	-	-	-	1	3	-	1	5	3
	9	29	17	68	8	6	23	17	7	184	18



## SECTION " B "

### GENERAL PROVISION OF HEALTH SERVICES IN THE AREA

#### 1. MEDICAL PRACTITIONERS

There are 23 doctors residing in the area who are engaged in general practice.

#### 2. LABORATORY FACILITIES

The following specimens were submitted to the Public Health Laboratory, Preston Hall, Maidstone, for examination:-

A.	(1)	Faeces	- Examination for Pathogenic Organisms	..	23
B.	(1)	Milk	- Turbidity Test	.. ..	24
	(2)	Water	- Public Supplies - Bact. Examination	..	62
			- Swimming Pool	..	12
	(3)	Ice Cream	- Bacteriological Examination	..	59
Total					157

#### 3. COUNTY AMBULANCE SERVICE

Twelve ambulances (7 stretcher and 5 sitting cases) are stationed at the Harden V.C. Memorial Hall, Hall Road, Northfleet. Telephone - Gravesend 5257/8

#### 4. HOME NURSING SERVICE

The County Council provides a service free of charge for the attendance on persons whose doctors require them to be nursed in their own homes. In cases of chronic sickness in patients who are over 70 years of age, a night service is provided. The nurse's attendance is normally arranged by the doctor, but the name and address of the appropriate nurse for any particular district is obtainable from the under-mentioned District Office of the County Council:-

Arthur Street, Gravesend. (Tel. Gravesend 166)

The following services are provided by the County Council:-

#### 5. MATERNITY AND CHILD WELFARE CLINICS

- (1) Ante-Natal Clinics.
- (2) Infant Welfare Clinics.
- (3) Diphtheria and Poliomyelitis Immunisation Clinics.
- (4) Dental Clinics.
- (5) Speech Therapy Clinics.



## 6. MIDWIFERY SERVICE

There are seven County Midwives serving the Gravesend area.

Name	Address	Telephone No.
Miss L. M. Mills	85 Whitehill Road, Gravesend.	Gravesend 2980
Miss W. M. Hunt	77 Dickens Road, Gravesend.	" 4166
Miss M. A. G. Gaskell	77 Dickens Road, Gravesend.	" 4166
Mrs. F. E. Dudley	25 Arnold Road, Gravesend.	" 5976
Miss A. A. Gibson	55 St. Margaret's Cres., Gravesend.	" 63582
Mrs. J. Showler	7 Goodwood Crescent, Gravesend.	" 4880
Mrs. M. E. Longdon	90 Leander Drive, Gravesend.	" 8052

## 7. DOMESTIC HELP SERVICE

This is a County Service giving domestic help to old people, maternity patients and persons suffering from illness, and other cases of emergency. Application is made to the District Office, Arthur Street, Gravesend. Telephone Gravesend 166.

### CHEST CLINIC - (South-East Metropolitan Regional Hospital Board)

The Chest Clinic is held at the Gravesend and North Kent Hospital every Wednesday at 9.30 a.m., and on Tuesday afternoons at 2 p.m. for children.

### VENEREAL DISEASE CLINIC -

(South-East Metropolitan Regional Hospital Board)

Dr. C. D. Routh is in attendance at the Gravesend Clinic, 22 Cobham Street, at the following times:-

#### Tuesday

Male	..	11.0 a.m. to 1.0 p.m.
Female	..	1.0 p.m. to 2.0 p.m.

#### Saturday

Male and Female	9.0 a.m. to 10.0 a.m.
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# GRAVESEND AND NORTH KENT HOSPITAL

The Out-patient Clinics at the Hospital are as follows:-

## MONDAY

9.30 a.m.	Ear, Nose & Throat Clinic	Mr. Golding-Wood
9.30 a.m.	Medical	Dr. J. Craig
9.30 a.m.	Physical Medicine	Dr. Hickey
1.45 p.m.	Paediatric Clinic	Dr. Fisher
2.00 p.m.	Medical	Dr. Moir
6.30 p.m.	Family Planning Association	Dr. Charlotte Wisdom

## TUESDAY

9.00 a.m.	Dental Clinic	Mr. F. T. Wilkinson
9.30 a.m.	Dermatology Clinic	Dr. Cairns
10.30 a.m.	Ophthalmic Clinic	Dr. Ormrod
11.30 a.m.	Surgical Clinic	Mr. M. Landau
1.30 p.m.	Ante-Natal Clinic	Mr. A. M. Hunter
2.00 p.m.	Chest Clinic	Dr. H. J. Robinson
3.00 p.m.	Obstetric Clinic	Mr. A. M. Hunter
4.00 p.m.	Gynaecological Clinic	Mr. A. M. Hunter

## WEDNESDAY

9.00 a.m.	Surgical Clinic	Mr. B. E. C. Stanley
9.30 a.m.	Chest Clinic	Dr. H. J. Robinson
9.30 a.m.	Speech Therapy (First Wednesday in each month)	Miss Halfpenny
2.00 p.m.	Chest Clinic	Dr. H. J. Robinson
2.30 p.m.	Psychiatric Clinic	Dr. S. W. Hardwicke
2.30 p.m.	Psychiatric Clinic	Dr. Crawford
2.30 p.m.	Psychiatric Clinic	Dr. Stewart

## THURSDAY

9.30 a.m.	Ophthalmic Clinic	Mr. G. L. Simmons
9.30 a.m.	Orthopaedic Clinic	Mr. R. H. V. Hafner
1.45 p.m.	Medical	Dr. J. Craig
2.30 p.m.	Orthopaedic Clinic	Mr. R. H. V. Hafner
6.30 p.m.	Family Planning Association	Dr. Charlotte Wisdom

## FRIDAY

9.00 a.m.	Dental Clinic	Mr. F. T. Wilkinson
9.00 a.m.	Gynaecological Clinic	Dr. Dalley
10.30 a.m.	Fracture Clinic	Mr. R. H. V. Hafner
11.00 a.m.	Obstetric Clinic	Mr. Gross
2.00 p.m.	Surgical Clinic	Mr. Sol. M. Cohen
2.00 p.m.	Psychiatric Clinic	Dr. Haynes
2.00 p.m.	Psychiatric Clinic	Dr. Crawford
2.00 p.m.	Psychiatric Clinic	Dr. Stewart
2.00 p.m.	Psychiatric Clinic	Dr. S. W. Hardwicke

## SATURDAY

9.00 a.m.	Ante-Natal Clinic	Dr. Dalley
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## MATERNITY AND CHILD WELFARE

Under the National Health Service Act, 1946, the administrative arrangements for the Maternity and Child Welfare Services passed from the Borough Council to the Kent County Council.

### NOTIFICATION OF BIRTHS

Notification of births are sent direct to the County Medical Officer at Maidstone.

The number of live and still births occurring in Gravesend during the year was 939. After correction for those whose usual residence is elsewhere (i.e. 139 transferred "out" and 262 transferred "in") the number properly belonging to the Borough was 1,062 (1,040 live births and 22 still births) compared with 927 in the previous year.

### PARTICULARS OF BIRTHS OCCURRING IN GRAVESEND

Total No. of live and still births occurring in Gravesend	..	939
No. of live births actually belonging to Gravesend	..	785
No. of still births actually belonging to Gravesend	..	15
No. of live births (non-residents)	.. ..	135
No. of still births (non-residents)	.. ..	4
		<hr/>
		939

### NO. OF BIRTHS OCCURRING IN HOSPITAL

	Live Births	Still Births
No. of infants born in Hospital - (residents)	327	10
No. of infants born in Hospital - (non-residents)	135	4

### HEALTH VISITORS

Nurses with special qualifications are appointed for the purpose of giving advice as to the care of young children, persons suffering from illness and expectant and nursing mothers and as to the measures necessary to prevent the spread of infection.

The following Health Visitors are employed in the Gravesend area and can be contacted at their respective welfare centres:-

Miss M. C. Craddock, S.R.N., S.C.M., Windmill Street Welfare Centre.  
Miss C. James, S.R.N., S.C.M., "The Nest", Welfare Centre.  
Miss E. M. Kenworthy, S.R.N., S.C.M., Whitehill Welfare Centre.

The following are specialist Health Visitors for tuberculosis:-

Miss E. M. Martin

Mrs. C. Roe

### PREMATURE INFANTS

Premature infants nursed at home are visited regularly by the Midwives and Health Visitors.

The following special equipment is available for loan at the Welfare Centres:

Draught-proof cot with detachable lining, suitable warm clothing, hot water bottles, special feeding bottles, thermometer, mucus catheter, etc.



## MATERNITY AND CHILD WELFARE CENTRES

The three Welfare Centres in the Borough are Windmill Street (Central), Whitehill (King's Farm Estate), and "The Nest" (Denton and Chalk district).

The sessions are as follows:-

	<u>Windmill Street</u> Afternoon	<u>Whitehill</u> Afternoon	<u>"The Nest"</u> Afternoon
MONDAY	Child Welfare Clinic - Medical Officer in attendance; Diphtheria Immunisation and Vaccinations; Health Visitors Consultations; Baby weighing; Sale of Foods, etc.	Child Welfare Clinic - Medical Officer in attendance; Health Visitors Consultations; Baby weighing; Sale of Foods, etc.	Child Welfare Clinic - Medical Officer in attendance; Health Visitors Consultations; Baby weighing; Sale of Foods, etc.
		Afternoon	
TUESDAY	-	Ante-Natal Clinic and Midwives' Clinic combined.	-
	Afternoon		Afternoon
WEDNESDAY	Midwives' Clinic.	-	Child Welfare Clinic - Medical Officer in attendance; Health Visitors Consultations; Baby weighing; Sale of Foods, etc.
	Afternoon	Afternoon	Morning & Afternoon
THURSDAY	Ante-Natal Clinic.	Child Welfare Clinic - Medical Officer in attendance; Health Visitors Consultations; Baby weighing; Sale of Foods, etc.	Speech Therapy Clinic.
	Afternoon	Afternoon	Afternoon
FRIDAY	Child Welfare Clinic - Medical Officer in attendance; Health Visitors Consultations; Baby weighing; Sale of Foods, etc.	*Mothercraft and Relaxation Classes.	*Ante-Natal Clinic. Midwives' Clinic.

\* First and third Fridays in each month.

\*\* Except second Friday in each month.

## ATTENDANCE AT CHILD WELFARE CENTRES

The attendances at the three Welfare Centres during the year were:-

(a)	Individual children under 1 year of age	..	813
(b)	Individual children between 1 and 5 years	..	1,225
(c)	Total number of attendances of all children under 5 years	.. ..	18,495

For the year 1959 the figures were:-

(a)	714	(b)	1,069	(c)	16,681
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## LADIES' VOLUNTARY COMMITTEE

The Ladies' Voluntary Committee continue to serve at the three Welfare Centres in the town and their work is greatly appreciated.

## ANTE-NATAL CLINICS

Ante-Natal clinics are held once a week at Windmill Street and Whitehill Welfare Centres and the first and third Friday in each month at "The Nest" Welfare Centre. A doctor is in attendance at each session.

In all, 290 expectant mothers attended the clinics. The total attendances for the year were 434.

## WOMEN'S WELFARE CLINIC

Married women requiring advice are referred to the Gynaecological Clinic at Gravesend and North Kent Hospital, by their private medical practitioners. This clinic is held on Tuesday afternoons at 4 p.m.

## DENTAL TREATMENT

Dental treatment for expectant and nursing mothers, children under five years and school children is provided at the Dental Clinic, Manor Road.

The clinic is open at the following times:-

Monday	A.M.	9.0 to 10.30
Tuesday	A.M.	9.0 to 12 noon
Wednesday and Thursday	P.M.	1.30 to 4.30
Friday	A.M.	9.0 to 10.30

## OPHTHALMIC TREATMENT

The County Ophthalmic Clinic is held at the Gravesend and North Kent Hospital. Further details on page 11.

## MINOR AILMENT CLINICS - SCHOOL CHILDREN

These clinics are held at the following times:-

Windmill Street	Wednesday and Friday	9 a.m. to 10 a.m.
Whitehill, King's Farm	Tuesday	9 a.m. to 10 a.m.



## REGISTRATION AND SUPERVISION OF NURSING HOMES

There are no Nursing Homes registered by the Borough Council. A Nursing Home, mainly for old people, is supervised by the Kent County Council under Section 37 of the National Assistance Act, 1948.

## ARRANGEMENTS MADE FOR THE DISCOVERY OF UNREGISTERED HOMES

1. The returns from the local Registrar are examined to check the addresses at which births and deaths occur.
2. Health Visitors and the staff are asked to keep a look out for unregistered homes.

## MORAL WELFARE

The Gravesend branch of the Rochester Diocesan Council for Moral Welfare has continued its important work in helping young people in trouble, loneliness or moral danger. They have a concern for the unmarried mother and her child, and for parents in perplexity. Temporary shelter was given to women and girls in immediate need.

This is a work which deserves more interest and support than it is at present receiving.

## WELFARE OF OLD PEOPLE

The Gravesend and District Old People's Welfare Committee have always realised the value of home visiting. They have found that much can be done to relieve the loneliness of old people and to help them maintain a brighter outlook. This is especially true in the case of many who rarely feel well enough to go out by themselves. The home visitors also make recommendations in regard to coach outings. A large number of old people from Gravesend and District have enjoyed visits to the seaside and the country.

## THE GRAVESEND AND DISTRICT SOCIAL CLUB FOR THE HARD OF HEARING

The work of this organisation continues to increase in usefulness. The programme is very varied; the mime group continues to be a fruitful and rewarding activity and the lip-reading classes are well supported and of the greatest use to members.



REMOVAL TO SUITABLE PREMISES OF PERSONS IN NEED OF CARE AND ATTENTION  
(Section 47, National Assistance Act, 1948, and Amendment Act, 1951)

A Magistrates' Order was obtained in the case of an old lady for whom hospital admission was urgently necessary both on her own account and on public health grounds. The Order was not used, however, and we found no difficulty in getting her away.

A Magistrates' Order was obtained in the case of a blind man of 53 years who was living in insanitary conditions. This patient refused persistently and firmly and the Order had to be carried out.

Mr. K. McIntyre, Chief Public Health Inspector, has supplied the statistics relating to Public Health Inspection, Housing, Food, Factory Inspection and Atmospheric Pollution.

## SECTION "C"

### SANITARY CIRCUMSTANCES OF THE AREA

#### WATER SUPPLY

##### PUBLIC DRINKING SUPPLIES

The Medway Water Board supply water to the Borough.

The water has been satisfactory -

(a) in quantity

(b) in quality

The water is hard and there is no evidence of plumbo-solvent action.

Ten dwelling houses are supplied from public mains by means of stand pipes.

#### BACTERIOLOGICAL EXAMINATION

Samples were taken at regular intervals and were all reported to be satisfactory, with the exception of two. Subsequent samples were taken and reported to be satisfactory.

Number of samples taken:-

Raw water	..	..	10
Treated water	..	..	52
			<hr/> 62 <hr/>

#### CHEMICAL ANALYSIS

One sample of treated water and one untreated were taken and were reported to be satisfactory.

Note:- Tabulated summaries of all water samples taken and results of examination are shown on pages 43, 44, 45 and 46.

## CORPORATION BATHING POOL

The Open-air Bathing Pool opened in 1938 has accommodation for 1,200 bathers. The main pool is 150 feet long by 75 feet wide and has two shallow areas and a diving pit. The 400,000 gallons of water in the pool are filtered, aerated and sterilised. Wide surrounds and large areas are provided for sun-bathing, whilst a spectators' terrace surrounds the site. On the first floor of the building a Cafe and Spectators' Gallery are provided, affording a splendid view of the whole site. There is also a Children's Paddling Pool, 50 feet by 50 feet, with its own surround, separated from the main pool by a terrace.

During the 1960 season the following persons used the Pools:-

Bathers and Spectators	..	..	..	91,095
Schoolchildren	..	..	..	25,855
Season Ticket Holders	..	..	..	15,824
Club Members	..	..	..	5,168
National Sea Training School	..	..	..	399
				<u>138,341</u>

## HYGIENIC ARRANGEMENTS AT BATHING POOL

The Medical Officer of Health has continued to keep the hygienic arrangements at the Pool under supervision. "Breakpoint Chlorination", which was put into operation in 1948 appears to be working efficiently.

## BACTERIOLOGICAL EXAMINATION OF BATHING POOL WATER

Twelve samples were taken. See tabulated summary on page 46.

## SLIPPER BATHS

The Slipper Baths at the Corporation Bathing Pool were opened in January, 1949.

There are separate section for males and females - 7 baths being allocated to males and 3 to females.

This service is working very satisfactorily and is much appreciated by the residents of the town. The attendances for the year 1960 were as follows:-

Males	..	..	14,337
Females	..	..	2,747
			<u>17,084</u>



## · FACTORIES ACTS, 1937-1959

The Council has the duty to enforce certain provisions of Parts I, IV and VIII of the Factories Act, 1937.

Administrative arrangements include the following:-

### Part I - Health (General Provisions)

- (1) Registration of all factories.
- (2) Inspection of sanitary conveniences in all factories.
- (3) Inspection with regard to cleanliness, overcrowding, temperature, ventilation and drainage of floors in all factories in which mechanical power is not used.

### Part IV - Basement Bakehouses

- (1) The quinquennial examination of basement bakehouses and the renewal or cancellation of Certificates of Suitability.

### Part VIII - Home Work

- (1) Examination of lists, supplied to the Council by employers of outworkers in certain specified trades.
- (2) Notification of name and place of employment of any home worker employed outside the Borough to the Council in whose district his employment is situated.
- (3) Inspection of premises in which the outworker pursues his occupation.

The provisions of the Act, so far as they affect local authorities, have been enforced.

## PREScribed PARTICULARS OF THE ADMINISTRATION OF THE FACTORIES ACTS, 1937-59

### PART I

1. Inspections for purposes of provisions as to Health (including inspections made by Public Health Inspectors).

Premises	Number on Register	Inspections	Written Notices	Owners Prosecuted
(i) Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by local authorities	32	46	1	-
(ii) Factories not included in (i) in which Section 7 is enforced by local authorities	116	239	3	-
(iii) Other premises in which Section 7 is enforced by the local authority (excluding outworkers premises)	4	-	-	-
	<hr/> 152	<hr/> 285	<hr/> 4	<hr/> -

2. Cases in which defects were found: -

Particulars	Number of cases in which defects were found				Number of cases in which prosecutions were instituted
	Found	Remedied	Referred To H.M. Inspector	By H.M. Inspector	
Want of cleanliness ..	4	5	-	-	-
Overcrowding .. ..	-	-	-	-	-
Unreasonable temperature	-	-	-	-	-
Inadequate ventilation	2	1	-	-	-
Ineffective drainage of floors	-	-	-	-	-
Sanitary Conveniences:-					
(a) insufficient ..	1	1	-	-	-
(b) unsuitable or defective ..	1	4	-	2	-
(c) not separate for sexes	-	-	-	-	-
Other offences against the Act (not including offences relating to Outwork)	1	-	-	-	-
	9	11	-	2	-

PART VIII OF THE ACT  
OUTWORK - SECTION 110 AND 111

SECTION 110

SECTION 111

Nature of work	No. of outworkers in August list re- quired by Sec.110(c) (2)	No. of cases in default in sending lists to the Council	No. of prosecu- tions for failure to supply lists	No. of instances of work in unwhole- some premises	Notices served	Prose- cutions
Wearing apparel (making, etc.)	4	-	-	-	-	-
Furniture and Upholstery	2	-	-	-	-	-
Lampshades	1	-	-	-	-	-
	7	-	-	-	-	-

1. Total number of outworkers notified to Gravesend Council  
in 1960 (under 1(e) of Sec. 110 Factories Act 1937) .. .. 6
2. Total number of outworkers notified by Gravesend Council  
to other Councils (under 2 of Sec. 110 Factories Act 1937) .. 2



3.	Total number of outworkers notified to Gravesend by other Councils .. .. .	..	..	3
4.	Total number of outworkers employed in Gravesend .. ..	..	..	7
5.	Total number of inspections of work places (under Sec. 111(1) Factories Act 1937) .. .. .	..	..	8

## BASEMENT BAKEHOUSES

### PART IV OF THE ACT

Certificates of suitability are in operation in respect of three basement bakehouses

## PUBLIC HEALTH INSPECTION

### SUMMARY OF INSPECTIONS AND REVISITS

Dwelling house inspections .. .. .	..	..	..	..	2,640
"        "        re-inspections .. ..	..	..	..	..	2,154
Visits to other premises:-					
Atmospheric pollution sites .. .. .	..	..	..	..	7
Clean Air Act .. .. .	..	..	..	..	458
Factories (with power) .. .. .	..	..	..	..	239
Factories (without power) .. .. .	..	..	..	..	46
Improvement grants .. .. .	..	..	..	..	44
Infectious diseases .. .. .	..	..	..	..	74
Offensive trades .. .. .	..	..	..	..	5
Outworkers .. .. .	..	..	..	..	8
Pet shops .. .. .	..	..	..	..	54
Piggeries .. .. .	..	..	..	..	11
Public conveniences and urinals .. ..	..	..	..	..	178
Rent Act .. .. .	..	..	..	..	2
Rodent control .. .. .	..	..	..	..	880
Schools .. .. .	..	..	..	..	6
Shops Acts .. .. .	..	..	..	..	74
Stables .. .. .	..	..	..	..	5
Food premises .. .. .	..	..	..	..	4,074
Miscellaneous visits .. .. .	..	..	..	..	327
Visited for purposes of meat and food inspection:-					
Slaughterhouses .. .. .	..	..	..	..	-
Meat depots .. .. .	..	..	..	..	41
Shops and other premises .. .. .	..	..	..	..	207
					<u>11,534</u>



## NOTICES SERVED

			Informal	Statutory
In respect of dwelling houses	..	..	362	35
In respect of other premises	..	..	103	2

## NUISANCES AND DEFECTS REMEDIED

### HOUSES:

Accumulations removed	..	..	..	..	49
Animals causing a nuisance	..	..	..	..	6
Dustbins provided	..	..	..	..	168
Cesspools - repaired	..	..	..	..	5
- filled in	..	..	..	..	3
Chimney stacks - repaired	..	..	..	..	5
- new pots provided	..	..	..	..	5
Dampness - sub-floor ventilation provided	..	..	..	..	2
- damp-proof courses provided	..	..	..	..	6
- external walls repointed or rendered	..	..	..	..	31
Doors and door sills repaired or renewed	..	..	..	..	11
Dirty houses cleansed by tenants	..	..	..	..	5
Drainage - partly relaid	..	..	..	..	16
- wholly relaid	..	..	..	..	1
- unstopped	..	..	..	..	48
- I.C. chambers or covers provided or repaired	..	..	..	..	10
- soil and ventilating pipes provided or repaired	..	..	..	..	8
- soil and ventilating pipes removed	..	..	..	..	2
- gullies, etc. provided or repaired	..	..	..	..	9
- sewers unstopped	..	..	..	..	17
Floors relaid or repaired	..	..	..	..	21
Guttering or rainwater pipes renewed or repaired	..	..	..	..	24
Lavatory basins renewed or repaired	..	..	..	..	2
Light and ventilation improved	..	..	..	..	2
Paving relaid or repaired	..	..	..	..	12
Roofs repaired	..	..	..	..	57
Rooms, passages and staircases - walls repaired	..	..	..	..	31
- ceilings repaired	..	..	..	..	26
- staircases, balusters repaired	..	..	..	..	4
Sinks, new provided	..	..	..	..	6
Sink or bath waste pipe renewed or repaired	..	..	..	..	6
Stoves and fireplaces renewed or repaired	..	..	..	..	6
Stonesteps and thresholds renewed or repaired	..	..	..	..	7
Verminous premises disinfested	..	..	..	..	25

# HOUSES (contd.):

Water supply - water pipes, etc. repaired	..	..	7
Water closets - rebuilt .. .. .	..	..	2
- repaired and/or cleansed	..	..	26
- new pans .. .. .	..	..	4
- pans cleansed or unstopped	..	..	4
- cisterns provided or repaired	..	..	23
- seats renewed or repaired	..	..	3
Windows - renewed or repaired .. .. .	..	..	25
- sashcords and weights provided or repaired	..	..	9
- sills renewed or repaired .. .. .	..	..	9

# FOOD PREMISES:

Premises repaired or cleansed .. .. .	..	..	79
Utensils, equipment, etc., repaired or cleansed ..	..	..	43
Improvements .. .. .	..	..	67
Personal cleanliness contraventions	..	..	8
Names and address on vehicles .. .. .	..	..	6

# THE RAG FLOCK AND OTHER FILLING MATERIALS ACT, 1951

Two premises are registered within the district and these have been kept under supervision.

# PET ANIMALS ACT, 1951

Four premises are licensed within the district and 54 visits of inspection were made.

# CESSPOOL AND PAIL SYSTEM

There are still premises in the Eastern and Southern parts of the Borough where the drainage discharges into cesspools.

The Health Department is responsible for this work but the actual emptying of cesspools is carried out on behalf of the Department by the Borough Engineer's Department, a combined road gully and cesspool emptying machine being used for the purpose.

During the year 9,203 tons of sewage were removed, requiring 823 emptyings, compared with 9,803 tons requiring 982 emptyings during the previous year.

Pail closets are still used at 8 dwelling houses in the Borough.



## HOUSE AND TRADE REFUSE REMOVAL AND DISPOSAL

### (a) COLLECTION

Refuse collected during the year amounted to 13,848 tons, compared with 13,813 tons the previous year, these amounts being ascertained by test weighing.

### (b) DISPOSAL

All refuse is disposed of by controlled tipping. The tip is a disused chalk pit in Vale Road, Northfleet and is operated by the Northfleet Urban District Council.

It is used jointly by Gravesend, Northfleet and Swanscombe, and the operating costs are borne by each authority on a proportionate basis according to population.

## SALVAGE

Salvaged materials collected and sold during the year were as follows:-

	Weight			Value £
	T.	C.	Q.	
Waste paper	453	8	0	3,595
Miscellaneous	1	2	0	8
	454	10	0	3,603

## DISINFECTION OF PREMISES

Disinfection of rooms and bedding where necessary for the prevention of infectious diseases was carried out at 20 premises.

## PUBLIC CONVENIENCES

The Health Department is responsible for the staffing and cleansing of public conveniences in the Borough.

Conveniences at 13 licensed premises are also cleansed by Health Department employees in consideration of the fact that they are available for the use of the general public at all times.

Conveniences attached to other licensed premises have been kept under supervision.



## RODENT CONTROL

All infested premises notified to the Health Department or discovered during the course of inspection during the year were dealt with. The cost of disinfection at business premises by the Council's Rodent Officer is charged to the occupiers, but the work at dwelling houses is carried out free.

The following report summarises the work carried out by the Rodent Officer during the year 1960:-

Number of properties inspected	..	292
Number of properties found to be infested by: (a) Rats	..	92
(b) Mice	..	153
Number of properties treated and cleared	.. ..	236

Sewer maintenance treatments were carried out in the Spring with the undermentioned results:-

Number of manholes baited	..	486
Number showing complete takes	..	97

## SECTION "D"

### HOUSING

#### 1. Inspection of dwelling houses during the year:-

(1)	Total number inspected for housing defects (under Public Health or Housing Acts)	..	..	2,253
(2)	Number of Inspections made for the purpose	..	..	4,199
(3)	Number found to be in a state so dangerous or injurious to health as to be unfit for human habitation	..	..	49
(4)	Number found not to be in all respects reasonably fit for human habitation	..	..	163

#### 2. Remedy of defects:-

(1)	After informal action by Local Authority	..	..	94
(2)	After formal notice under Public Health Acts:-			
	(a) by owners	..	..	27
	(b) by Local Authority in default of owners	..	..	1

#### 3. Demolition and Closure Procedure:-

(1)	Number of dwelling houses in respect of which Demolition Orders were made	..	..	4
(2)	Number of dwelling houses demolished in pursuance of Demolition Orders	..	..	1
(3)	Number of dwelling houses demolished as a result of informal procedure	..	..	-
(4)	Number of dwelling houses in respect of which Closing Orders were made	..	..	5
(5)	Number of dwelling houses closed in pursuance of Closing Orders	..	..	6
(6)	Number of dwelling houses in respect of which Closing Orders were determined	..	..	1

## HOUSING ACT, 1957, PART III

### Clearance Areas

The following areas were represented:

Russell Place and Russell Street	..	8 houses
Brunswick Retreat	..	20 houses
Castle Cottages	..	7 houses

### Clearance Orders

The following Orders were made:

Russell Place and Russell Street  
Brunswick Retreat  
Castle Cottages

The following Order was confirmed:

Russell Place and Russell Street

## Compulsory Purchase Orders

The following Order was made:

Bentley Street and Cottage Place	..	42 houses
----------------------------------	----	-----------

The following Order was confirmed:

Eden Place	..	..	..	18 houses
------------	----	----	----	-----------

## Rehousing

Forty-four families were rehoused as a result of procedure under the Housing Act, 1957.

## Future Slum Clearance

In accordance with Circular 2/60 Ministry of Housing and Local Government, a survey was carried out and the following return submitted:-

### Part I The total problem

(i)	Estimated number of houses remaining unfit for human habitation	..	540
(ii)	Period of years which the Council think necessary for securing the demolition of all houses in (i)		10

### Part II Action already taken

	Number of houses demolished or closed since 1.1.56, including unfit houses owned by local authorities and those in unfitness orders	..	104
--	---	----	-----

### Part III Further proposals for action in the next 5 years

(i)	Number of houses to be demolished in Clearance Areas	..	..	326
(ii)	Number of houses to be demolished elsewhere	..	..	22
(iii)	Number of houses to be patched and retained for temporary accommodation	..	..	12



## RENT ACT, 1957 - FIRST SCHEDULE

### Part I - Applications for Certificates of Disrepair:

(1) Number of applications for certificates	..	1
(2) Number of decisions not to issue certificates	.. ..	Nil
(3) Number of decisions to issue certificates -		
(a) in respect of some but not all defects		1
(b) in respect of all defects	.. ..	Nil
(4) Number of undertakings given by landlords	..	1
(5) Number of undertakings refused by Local Authority	.. ..	Nil
(6) Number of certificates issued	.. ..	Nil

Part II - Application for Cancellation of Certificates: .. Nil

## HOUSING ACCOMMODATION

Visits numbering 36 have been made to premises where the environmental conditions have been reported as unsatisfactory. Five of the cases were referred to the Housing Manager.

## SECTION "E"

### INSPECTION AND SUPERVISION OF FOOD

Inspection of food premises is being maintained, and the following is a summary of the visits made and notices served:-

	No. of premises	No. of visits	Number of Notices Served
Bakehouses .. ..	11	56	-
Butchers .. ..	36	318	16
Cake and bread shops ..	22	151	7
Canteens .. ..	25	61	2
Catering premises .. ..	63	460	17
Confectioners .. ..	58	299	4
Cooked meat shops .. ..	20	117	1
Dairies and milkshops ..	78	303	2
Licensed premises .. ..	99	195	11
Fish-frying establishments ..	14	59	3
Fishmongers .. ..	17	164	3
Greengrocers .. ..	47	686	7
Ice cream premises .. ..	128	381	-
Provision dealers .. ..	121	824	18
	<u>739</u>	<u>4,074</u>	<u>91</u>

Note: Where premises carry on more than one type of business they are recorded under each appropriate type.

#### FOOD AND DRUGS ACT, 1955, SECTION 16

##### Premises registered:

(a) for the sale of ice cream .. ..	128
(b) for the manufacture and sale of ice cream ..	1
(c) for the preparation or manufacture of sausages, or potted, pressed, pickled or preserved food .. ..	63

#### THE MILK AND DAIRIES (GENERAL) REGULATIONS, 1959

Registered dairies .. ..	2
Registered milk distributors .. ..	76

MILK (SPECIAL DESIGNATION) (RAW MILK) REGULATIONS 1949 TO 1954  
MILK (SPECIAL DESIGNATION) (PASTEURISED AND STERILISED) MILK  
REGULATIONS, 1949 TO 1953

Licences issued under these Regulations were as follows:-

"Tuberculin Tested"	Dealers' Licences	..	5
	Dealers' Supplementary Licences	..	2
"Pasteurised"	Pasteurisers' Licences	..	2
	Dealers' Licences	..	26
	Dealers' Supplementary Licences	..	2
"Sterilised"	Dealers' Licences	..	68
	Dealers' Supplementary Licences	..	3

BACTERIOLOGICAL EXAMINATION OF MILK

Samples of milk were taken and submitted for bacteriological examination and the results were as follows:-

<u>Designation</u>		<u>No. of Samples</u>	<u>Results</u>	
Pasteurised	111	Methylene Blue Test	Satisfactory	67
			Unsatisfactory	5
		Phosphatase Test	Satisfactory	39
			Unsatisfactory	-
Tuberculin Tested (Pasteurised)	79	Methylene Blue Test	Satisfactory	45
			Unsatisfactory	-
		Phosphatase Test	Satisfactory	34
			Unsatisfactory	-
Sterilised	24	Turbidity Test	Satisfactory	24
			Unsatisfactory	-

BACTERIOLOGICAL EXAMINATION OF ICE CREAM

Samples of ice cream were taken and submitted for bacteriological examination and the results were as follows:-

			Number of Samples
Grade 1	..	..	40
Grade 2	..	..	15
Grade 3	..	..	4
Grade 4	..	..	-
			<hr/> 59 <hr/>

Slaughterhouses

The licence for the only slaughterhouse in the Borough expired on 31st July, 1960 and no application for renewal was made.

No slaughtering took place during the year.



## Inspection of Food

The following food was surrendered as unfit for human consumption:-

(a) Carcase meat and offal:

Beef	1,022 lbs.	Liver	296 lbs.
Pork	474 lbs.	Kidneys	159 lbs.
Lamb	150 lbs.	Pigs' heads	300 lbs.

(b) Miscellaneous:

Bacon	126 lbs.	Fish	126 lbs.
Poultry	106 lbs.	Potatoes	560 lbs.
Sausages	24 lbs.		

(c) Tinned, bottled or packaged goods:

Meat	1,071 tins	Butter	1 tin
Poultry	22 tins	Orange juice	1 tin
Fish	90 tins	Macaroni	1 tin
Vegetables	729 tins	Beef extract	1 tin
Fruit	974 tins	Pease pudding	1 tin
Milk	335 tins	Jam	31 tins
Soup	490 tins	Jam	54 jars
Cream	51 tins	Pickles & sauces	6 bottles
Meat pudding	35 tins	Meat paste	11 jars
Rice	57 tins	Fish paste	13 jars
Baby food	37 tins	Biscuits	59 packets
Spaghetti	18 tins	Blancmange	185 packets
Tomato juice	10 tins	Jellies	5 packets

In addition to the above, 424 packets of miscellaneous frozen foods which had become unfit for human consumption as a result of the breakdown of a refrigerating plant, were surrendered.

Food and Drugs Act, 1955

Samples taken during the year and submitted for analysis were as follows:-

Article	Number of Samples		Result of Analyses	
	Formal	Informal	Genuine	Not Genuine
Almond flavouring	-	1	1	-
Anchovy fillets	-	1	1	-
Baking powder	-	4	4	-
Beef (minced)	-	2	2	-
Casserole meat	-	1	1	-
Cherries (tinned)	-	1	1	-
Coffee	-	1	1	-
Coconut spread	-	1	1	-
Cough syrup	-	1	1	-
Cream	-	4	4	-
Cream doughnuts	-	1	-	1
Custard powder	-	1	1	-
Dried fruit	-	1	1	-
Dripping	-	2	2	-
Drugs	-	1	1	-
Fish paste	-	1	1	-
Flour	-	2	2	-
Fruit juice	-	2	2	-
Glaze cherries	-	2	2	-
Ground ginger	-	1	1	-
Ice cream	-	18	18	-
Jam	-	1	1	-
Lemonade powder	-	1	1	-
Luncheon meat	-	1	1	-
Meat paste	-	2	2	-
Meat pies	-	1	1	-
Milk	15	37	46	6
Mussels	-	1	1	-
Peaches	-	1	1	-
Peanut butter	-	1	1	-
Pepper	-	1	1	-
Pork pie	-	1	1	-
Potato (dried)	-	1	1	-
Rice	-	1	1	-
C/fwd.	15	99	107	7

Article	Number of Samples		Result of Analyses	
	Formal	Informal	Genuine	Not Genuine
B/fwd.	15	99	107	7
Saveloys	-	1	1	-
Sausage meat	-	2	2	-
Sausages	-	4	4	-
Soda water	-	1	1	-
Stewed steak	-	1	1	-
Suet	-	1	1	-
Sweets	-	3	3	-
Tea	-	1	1	-
Tomato chutney	-	2	2	-
Zinc ointment	-	1	1	-
	15	116	124	7

Particulars of Samples Adulterated or  
otherwise giving rise to Irregularity

A sample of cream doughnuts contained fat other than butter fat. A notice exhibited by the vendor was considered to be misleading, but this notice was amended.

The Public Analyst reported that fat had been abstracted from six samples of milk. The samples were taken in course of delivery and arrangements were made for "Appeal to cow" samples to be taken at the farm. These samples showed similar results.

Complaints:

Complaints were received as follows and investigated:-

- (1) Foreign matter in a bottle of milk. A letter of caution was sent to the distributor.
- (2) Cooked sausage discoloured and containing foreign matter. A letter of caution was sent to the manufacturer.
- (3) Foreign body in a loaf of wrapped sliced bread. A letter of caution was sent to the manufacturer.
- (4) A portion of bacon unfit for food, purchased at a market stall. Its condition was found to be due to "bone taint" and a warning letter was sent to the vendor.
- (5) Roast pork unfit for food. Letters of caution were sent to the manufacturer and the vendor.
- (6) Piece of metal in a loaf of wrapped sliced bread. This matter was taken up with the manufacturers and a reasonable explanation was given.
- (7) Blowfly in a tin of peas. The matter was taken up with the manufacturers.



## SECTION "F"

### PREVALENCE AND CONTROL OVER INFECTIOUS AND "OTHER DISEASES"

#### INFECTIOUS DISEASES

The following notifiable infectious diseases were recorded:-

Measles	..	..	..	..	46
Whooping Cough	..	..	..	..	43
Tuberculosis - Respiratory	..	..	..	..	21
- Non-Respiratory	..	..	..	..	5
Pneumonia	..	..	..	..	25
Scarlet Fever	..	..	..	..	35
Erysipelas	..	..	..	..	5
Puerperal Pyrexia	..	..	..	..	1
Acute Poliomyelitis-Paralytic	..	..	..	..	1
Dysentery	..	..	..	..	2
					<hr/> 184

A table showing other particulars is given on page 8.

There were no cases of Smallpox or Diphtheria.

#### INSTITUTIONAL ACCOMMODATION FOR INFECTIOUS DISEASES

Patients needing institutional accommodation for treatment or isolation were sent to Joyce Green Hospital, Dartford.

Other arrangements include the following:-

- (a) Ophthalmia Neonatorum - Kent Ophthalmic Hospital, Maidstone.
- (b) Smallpox - The River Hospital (Long Reach) Dartford.
- (c) Tuberculosis - Bow Arrow Hospital, Dartford, and other hospitals and sanatoria arranged by the Chest Physicians.

#### POLIOMYELITIS VACCINATION

Details are found on page 37.

#### DIPHTHERIA IMMUNISATION

This work is under the control of the Kent County Council and the following arrangements are in operation:-

1. Immunisations are carried out at special sessions at the Welfare Centres and School Clinics.
2. Immunisations on behalf of the Local Health Authority are carried out by General Practitioners at their surgeries.
3. Notices are sent to parents of every infant at the age of 8 months.

4. The Health Visitors follow up all cases in which there is no record of the injections having been given.

The following is a return of the number of children under the age of 15 years on 31st December, 1960, who had completed a course of immunisation at any time before that date (i.e. at any time since 1st January, 1946)

Year of Birth	Last complete course of injections (primary or booster) 1956 - 1960	1955 or earlier
1960	407	-
1959	610	-
1958	548	-
1957	434	-
1956	449	-
1955	530	18
1954	331	250
1953	266	285
1952	233	294
1951	356	272
1950	125	478
1949	86	513
1948	433	248
1947	624	288
1946	65	403
	<hr/> 5, 497	<hr/> 3, 049

The following is a return of the number of children resident in the Borough who were immunised against Diphtheria during the year ended 31st December, 1960:-

Year of Birth	Primary Inoculation	Re-inforcing Inoculations
1960	407	-
1959	462	4
1958	54	11
1957	28	10
1956	15	32
1955	17	206
1954	15	63
1953	10	27
1952	7	15
1951	3	11
1950	6	13
1949	3	7
1948	1	3
1947	2	1
1946	-	-
Before 1946	-	-
	<hr/> 1, 030	<hr/> 403

## SMALLPOX PREVENTION

### Vaccination

When the National Health Service Act, 1946, came into operation the Vaccination Acts were repealed and infant vaccination ceased to be compulsory.

The following is a return of the number of persons who were vaccinated against Smallpox during the year ended 31st December, 1960.

Year of Birth	Primary Vaccination	Re-Vaccination
1960	242	-
1959	343	1
1958	40	2
1957	12	-
1956	5	1
1955	1	1
1954	2	-
1953	1	1
1952	2	-
1951	1	-
1950	-	-
1949	-	-
1948	1	-
1947	2	-
1946	-	-
Before 1946	3	1
	<hr/> 655	<hr/> 7

## WHOOPING COUGH IMMUNISATION

The following is a return of the number of persons who were immunised against Whooping Cough during the year ended 31st December, 1960.

Year of Birth	Primary Immunisation
1960	406
1959	404
1958	43
1957	21
1956	13
1955	14
1954	14
1953	9
1952	5
1951	2
1950	3
1949	3
1948	-
1947	2
1946	-
Before 1946	-
	<hr/> 939



## POLIOMYELITIS VACCINATION

The following table gives the number of persons resident in the Borough who received injections against Poliomyelitis during the year ended 31st December, 1960:-

Year of Birth	Given two injections	Given third injection
1960	127	2
1959	458	209
1958	76	358
1957	22	139
1956	13	85
1955	17	75
1954	14	81
1953	7	68
1952	12	57
1951	8	49
1950	6	43
1949	7	58
1948	18	86
1947	12	88
1946	20	96
1945	8	60
1944	167	92
1943	164	128
1933 - 1942	268	1,241
Before 1933	798	198
Others	122	240
	<hr/> 2,344	<hr/> 3,453

## TUBERCULOSIS

Close co-operation has been maintained between the Health Department and the Chest Physicians.

### Diagnosis

The Chest Clinic is provided at the Gravesend and North Kent Hospital where patients are seen every Wednesday at 9.30 a.m. and on Tuesday afternoons for children.

### NOTIFICATION OF NEW CASES OF TUBERCULOSIS

In 1960, 26 fresh cases were notified. The following table gives comparative particulars over the last ten years:-

Year	Estimated Population of Registrar General	Pulmonary	Non- Pulmonary	Total
1951	44,280	54	1	55
1952	45,260	77	3	80
1953	45,530	48	3	51
1954	45,960	57	6	63
1955	46,390	36	3	39
1956	47,670	31	5	36
1957	46,930	29	6	35
1958	46,660	27	1	28
1959	48,370	29	3	32
1960	49,110	21	5	26

The sources from which the notifications of tuberculosis were received:-

Chest Physicians .. ..	18
Private Medical Practitioners ..	1
Hospitals and Institutions ..	7

#### AGE AND SEX DISTRIBUTION OF TUBERCULOUS PATIENTS

The following table shows the age and sex distribution of our 26 new cases:-

Age Periods	Pulmonary		Non-Pulmonary	
	Male	Female	Male	Female
0 - 1	-	-	-	-
1 - 5	-	-	-	-
5 - 10	-	-	-	-
10 - 15	-	-	-	-
15 - 20	1	-	-	1
20 - 25	1	-	-	-
25 - 35	1	2	-	1
35 - 45	5	4	2	-
45 - 55	2	1	-	-
55 - 65	1	1	-	-
65 & over	-	2	-	1
	<u>11</u>	<u>10</u>	<u>2</u>	<u>3</u>

#### OCCUPATIONAL ANALYSIS OF TUBERCULOUS PATIENTS

	Male	Female
Housewife .. ..	-	11
Painter .. ..	1	-
Scaffolder .. ..	1	-
Labourer .. ..	4	-
Fitter's Mate .. ..	1	-
Apprentice Fitter .. ..	1	-
Harbour Master's Assistant .. ..	1	-
Clerk .. ..	1	-
School Cleaner .. ..	-	1
Storeman .. ..	1	-
Boarding House Proprietor .. ..	1	-
Student .. ..	-	1
No occupation .. ..	1	-
	<u>13</u>	<u>13</u>

## TUBERCULOSIS DEATHS AND DEATH RATE

There were 9 deaths registered from Pulmonary Tuberculosis. This gives a death rate of .18 per 1,000 population for all forms of tuberculosis.

The following table compares the figures for 1960 with those of previous years:-

Year	Pulmonary		Non-Pulmonary		TOTAL Rate per 1,000 Pop.
	Number of deaths	Rate per 1,000 Pop.	Number of deaths	Rate per 1,000 Pop.	
1951	11	.25	2	.04	.29
1952	11	.24	1	.02	.26
1953	11	.24	1	.02	.26
1954	9	.19	2	.04	.23
1955	9	.19	-	-	.19
1956	4	.08	1	.02	.10
1957	7	.14	-	-	.14
1958	5	.11	2	.04	.15
1959	5	.10	-	-	.10
1960	9	.18	-	-	.18

## TUBERCULOSIS REGISTER

The names of 59 persons were removed from the Register for the following reasons:-

Deaths	..	..	9
Left the District	..	..	10
Recovered	..	..	35
Diagnosis not Confirmed	..	..	3
Refused Public Medical Treatment			2
			<hr/> 59 <hr/>

Five hundred and three persons remained on the Register at the 31st December, 1960. They consist of the following:-

	Males	Females	Total
Pulmonary	265	207	472
Non-Pulmonary	16	15	31
	<hr/> 281 <hr/>	<hr/> 222 <hr/>	<hr/> 503 <hr/>

## MASS RADIOGRAPHY

The last survey was carried out in 1959 and we hope to have a further visit from the unit in 1962.



## TUBERCULOUS PATIENTS ADMITTED TO HOSPITALS AND SANATORIA

Thirteen patients suffering from pulmonary tuberculosis and three patients suffering from non-pulmonary tuberculosis were admitted during the year. There has been a continued improvement in obtaining early admission to hospital and sanatoria, and the delay in obtaining admission for patients needing thoracic surgery has been considerably reduced.

## INNOCULATION AGAINST TUBERCULOSIS

A substantial number of children have been vaccinated with B.C.G.

## LEGAL PROCEEDINGS (TUBERCULOSIS)

No action was necessary during the year under the Public Health (Prevention of Tuberculosis) Regulations, 1925, or under Section 172 of the Public Health Act, 1936.

## VENEREAL DISEASES

Dr. C. D. Routh, the Medical Officer in charge of the Gravesend Clinic, has kindly supplied the following statistics:-

New Patients - Gravesend				Males	Females	Total
Syphilis	..	..	..	1	1	2
Gonorrhoea	..	..	..	20	22	42
Other conditions	..	..	..	58	39	97
				<u>79</u>	<u>62</u>	<u>141</u>
Total No. of New Patients from all areas				..	..	298
Total No. of attendances from all areas				..	..	1,480
Total No. of attendances from Gravesend				..	..	483

Discharged cured (all districts):-				Males	Females	Total
Syphilis	..	..	..	2	3	5
Gonorrhoea	..	..	..	25	21	46
Other conditions	..	..	..	141	47	188
				<u>168</u>	<u>71</u>	<u>239</u>

Defaulters before completion of treatment or final tests from the Gravesend area:-

Syphilis	..	..	..	..	..	2
Gonorrhoea	..	..	..	..	..	4
Other conditions	..	..	..	..	..	2

## CLEANLINESS, GOOD HEALTH AND ELIMINATION OF VERMINOUS CONDITIONS

The Health Visitors and Public Health Inspectors have been active in their educative work in regard to cleanliness and freedom from vermin.

ERADICATION OF VERMIN

The work of disinfection of Council houses is carried out by the Local Authority, infested rooms being sprayed with an insecticide.

Premises belonging to private owners are also disinfested on request and the cost of the work is charged to the persons concerned.

Twenty-five houses were disinfested by the Health Department during the year.

BOROUGH MORTUARY

The Mortuary, situated in Swan Yard, provides facilities for six bodies and there is a well equipped post-mortem room.

During the year, 116 bodies were received and 115 post-mortem examinations performed.

CORONER'S INQUESTS

H.M. Coroner has kindly supplied the following information:-

Total number of inquests	..	..	..	28
Number of inquests without post mortems	..	..	..	-
Number of post mortems without inquests	..	..	..	85
Verdicts:-				
Accidental deaths	..	..	..	23
Suicides	..	..	..	2
Found drowned	..	..	..	-
Other verdicts	..	..	..	3

SECTION "G"

**CLEAN AIR ACT, 1956**

**SMOKE CONTROL AREA**

A preliminary survey of an area to be considered as a smoke control area was carried out. The area comprised 686.4 acres in the southern part of the Borough and included approximately 1,290 premises.

In accordance with the memorandum on Smoke Control Areas, information relating to this area was submitted to the Minister of Housing and Local Government.



# BACTERIOLOGICAL EXAMINATION OF DRINKING WATER

	Date taken	B. Coli (presumptive) per 100 ml.	Faecal B. Coli per 100 ml.	Remarks
1. (a) Leith Park Road well (untreated)	21. 3. 60	None	None	Highly satisfactory
	26. 4. 60	None	None	Highly satisfactory
	17 5. 60	None	None	Highly satisfactory
	22. 6. 60	None	None	Highly satisfactory
	21. 7. 60	None	None	Highly satisfactory
	22. 8. 60	None	None	Highly satisfactory
	21. 9. 60	None	None	Highly satisfactory
	17. 10. 60	None	None	Highly satisfactory
	21. 11. 60	None	None	Highly satisfactory
	21. 12. 60	None	None	Highly satisfactory
(2) Reservoir (treated)	21. 1. 60	None	None	Highly satisfactory
	15. 2. 60	None	None	Highly satisfactory
	21. 3. 60	None	None	Highly satisfactory
	26. 4. 60	None	None	Highly satisfactory
	17. 5. 60	None	None	Highly satisfactory
	22. 6. 60	None	None	Highly satisfactory
	21. 7. 60	None	None	Highly satisfactory
	22. 8. 60	None	None	Highly satisfactory
	21. 9. 60	None	None	Highly satisfactory
	17. 10. 60	None	None	Highly satisfactory
	21. 11. 60	None	None	Highly satisfactory
	21. 12. 60	None	None	Highly satisfactory

# BACTERIOLOGICAL EXAMINATION OF DRINKING WATER

	Number of Samples	Date taken	B. Coli (presumptive) per 100 ml.	Faecal B. Coli per 100 ml.	Remarks
2. Domestic Supplies (treated)	3	25. 1. 60	None	None	Highly satisfactory
	2	15. 2. 60	None	None	Highly satisfactory
	1	15. 2. 60	2	2	Unsatisfactory
	1	22. 2. 60	None	None	Highly satisfactory
	3	21. 3. 60	None	None	Highly satisfactory
	3	26. 4. 60	None	None	Highly satisfactory
	2	17. 5. 60	None	None	Highly satisfactory
	1	17. 5. 60	18+	18+	Unsatisfactory
	1	24. 5. 60	None	None	Highly satisfactory
	3	22. 6. 60	None	None	Highly satisfactory
	3	21. 7. 60	None	None	Highly satisfactory
	3	22. 8. 60	None	None	Highly satisfactory
	5	21. 9. 60	None	None	Highly satisfactory
	3	17. 10. 60	None	None	Highly satisfactory
	3	21. 11. 60	None	None	Highly satisfactory
	3	21. 12. 60	None	None	Highly satisfactory

# CHEMICAL ANALYSIS OF DRINKING WATER

Date taken:	9.11.60	9.11.60
Appearance:	Clear, bright	Clear, bright
Odour:	Nil	Nil

Figures expressed in parts per million

Nitrite (N)	Nil	Nil
Nitrogen as Nitrates (N)	11.5	10.5
Free ammonia	Nil	Nil
Albuminoid ammonia	Nil	Nil
Chlorides as chlorine (Cl)	29	53
Oxygen absorbed from Permanganate in 4 hours	0.14	0.12
Hardness, total	338	308
Hardness, temporary	243	233
Hardness, non-carbonate (permanent)	95	75.
Total solids	402	442
pH value	7.1	7.1
Free chlorine	-	Not found
Microscopical examination	A few mineral fragments	A few mineral fragments

## OPINION:

These two samples are in a satisfactory condition and represent waters of good organic purity, free from sewage contamination.



BACTERIOLOGICAL EXAMINATION OF BATHING POOL WATER

Date taken	Where taken	B. Coli (presumptive) per 100 ml.	Faecal B. Coli per 100 ml.	Remarks
17.5.60	Deep end	None	None	Highly satisfactory
	Shallow end	None	None	Highly satisfactory
	Paddling pool	None	None	Highly satisfactory
22.6.60	Deep end	None	None	Highly satisfactory
	Shallow end	None	None	Highly satisfactory
	Paddling pool	None	None	Highly satisfactory
25.7.60	Deep end	None	None	Highly satisfactory
	Shallow end	None	None	Highly satisfactory
	Paddling pool	None	None	Highly satisfactory
22.8.60	Deep end	None	None	Highly satisfactory
	Shallow end	None	None	Highly satisfactory
	Paddling pool	None	None	Highly satisfactory

# ATMOSPHERIC POLLUTION

Data extracted from the Analyst's monthly reports was also supplied to the Thameside Joint Committee in the form shown in the following tables

(See notes at end of tables for details of abbreviations)

Site: Dashwood Lane Nurseries

Month	Rain mm	pH Value	Deposit (grams per 100 square metres)								
			TWIM	S/CS2	Ash	OCM	TWSM	Ca	Cl	SO4	TS
1959											
Oct.	41.46	7.14	422	3	334	85	366	73	37	128	788
Nov.	70.63	6.04	149	3	112	35	267	47	47	87	416
Dec.	76.12	6.14	157	3	118	37	340	63	78	136	497
1960											
Jan.	37.01	6.18	252	2	195	56	519	97	43	206	771
Feb.	38.19	7.12	237	2	182	53	324	63	35	127	562
Mar.	27.86	5.80	193	3	134	55	249	39	21	118	441
Total	291.27	38.42	1410	16	1075	321	2065	382	261	802	3475
Mean	48.55	6.40	235	3	179	54	344	64	44	134	579

Apr.	22.23	7.65	250	2	191	57	262	51	21	91	512
May	53.23	7.68	316	2	263	51	216	39	16	94	532
June	19.36	7.96	287	2	223	61	224	50	16	64	511
July	71.94	8.56	509	13	310	185	314	65	24	68	822
Aug.	85.54	8.56	352	4	196	151	455	62	24	144	807
Sep.	122.69	7.70	336	4	250	82	659	129	50	247	996
Total	374.99	48.11	2050	27	1433	587	2130	396	151	708	4180
Mean	62.50	8.02	342	5	239	98	355	66	25	118	697



Site: Swimming Pool

Month	Rain mm.	pH Value	Deposit (grams per 100 square metres)								
			TWIM	S/CS2	Ash	OCM	TWSM	Ca	Cl	S04	TS
1959											
Oct.	47.11	7.20	382	5	296	81	421	87	46	144	803
Nov.	72.38	5.85	288	6	206	75	297	58	58	112	585
Dec.	79.48	6.40	374	4	295	75	553	111	97	217	926
1960											
Jan.	40.92	6.32	294	4	227	63	441	84	51	168	734
Feb.	38.95	7.18	330	4	250	76	328	61	38	127	658
Mar.	25.00	5.96	350	4	258	88	326	61	25	148	676
Total	303.84	38.91	2018	27	1532	458	2366	462	315	916	4382
Mean	50.64	6.49	336	5	255	76	394	77	53	153	730

Apr.	18.42	7.88	327	4	255	68	305	64	22	98	632
May	53.56	7.60	282	4	216	63	263	48	20	108	546
June	19.61	7.90	303	2	218	83	267	62	17	75	571
July	74.74	8.53	405	12	192	201	363	73	26	88	768
Aug.	102.12	8.30	463	11	269	183	537	92	26	170	1000
Sep.	107.91	7.50	417	5	305	108	505	97	47	195	923
Total	376.36	47.71	2197	38	1455	706	2240	436	158	734	4440
Mean	62.73	7.95	366	6	243	118	373	73	26	122	740

Abbreviations:-

TWIM	Total water insoluble matter
S/CS2	Soluble carbon disulphide
OCM	Other combustible matter
TWSM	Total water soluble matter
Ca	Calcium
Cl	Chloride
S04	Calculated as sulphate
TS	Total solids



# ATMOSPHERIC POLLUTION

Site	Rainfall inches	Measurement of Deposited Matter by Deposit Gauges			Estimation of Sulphur by Lead Peroxide Instruments
		Insoluble Deposit (Tons per square mile)	Soluble Deposit (Tons per square mile)	Total Solids (Tons per square mile)	SO <sub>3</sub> (sulphur trioxide) collected per day (milligrammes)
DASHWOOD LANE NURSERIES					
1960					
January	1.45	6.43	13.24	19.67	2.15
February	1.50	6.05	8.27	14.32	1.68
March	1.10	4.92	6.34	11.26	1.59
April	0.87	6.37	6.69	13.06	1.04
May	2.09	8.06	5.50	13.56	1.00
June	0.76	7.32	5.70	13.02	0.67
July	2.83	12.96	8.00	20.96	0.39
August	3.37	8.98	11.61	20.59	0.48
September	4.83	8.57	16.81	20.38	1.01
October	5.25	8.26	16.41	24.67	1.66
November	3.12	3.23	7.60	10.83	1.00
December	2.39	8.27	12.94	21.21	1.67
Mean	2.46	7.45	9.93	17.38	1.20
SWIMMING POOL					
1960					
January	1.61	7.49	11.24	18.73	2.40
February	1.53	8.42	8.36	16.77	2.03
March	0.98	8.93	8.32	17.25	1.51
April	0.72	8.35	7.77	16.12	1.10
May	2.11	7.20	6.71	13.91	0.98
June	0.77	7.74	6.81	14.55	0.74
July	2.94	10.33	9.26	19.60	0.54
August	4.02	11.81	13.69	25.50	0.65
September	4.25	10.64	12.89	23.53	1.19
October	5.22	11.19	13.76	24.95	1.73
November	3.24	5.66	8.86	14.52	1.38
December	2.38	8.55	13.42	21.97	1.91
Mean	2.48	8.86	10.09	18.95	1.35

Sulphur Dioxide (PbO<sub>2</sub> method)

SO<sub>3</sub> (sulphur trioxide collected per day (milligrammes))

Site	1959			1960				Mean
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Sum.	
Dashwood Nurseries	1.10	1.06	1.58	2.15	1.68	1.59	9.16	1.53
Swimming Pool	1.31	1.63	1.90	2.40	2.03	1.51	10.78	1.80

Site	1960							Mean
	Apr.	May	June	July	Aug.	Sep.	Sum.	
Dashwood Nurseries	1.04	1.00	0.67	0.39	0.48	1.01	4.59	0.77
Swimming Pool	1.10	0.98	0.74	0.54	0.65	1.19	5.20	0.87

INVESTIGATION OF ATMOSPHERIC POLLUTION,  
SMOKE AND SULPHUR DIOXIDE BY VOLUMETRIC METHOD

SITE:- 3 Woodville Terrace

	Smoke			Sulphur Dioxide		
	Concentration mg/100 m <sup>3</sup>			Concentration p.p. 100 m		
	Average value	Highest value	Lowest value	Average value	Highest value	Lowest value
1960						
January	21	85	4	7.2	26.1	0.7
February	16	38	4	6.0	21.7	2.4
March	12	21	2	4.8	9.2	1.6
April	7	17	2	4.5	9.9	2.0
May	5	11	1	3.3	6.0	1.8
June	3	5	1	2.1	5.7	0.5
July	2	6	0	1.4	5.4	0.5
August	2	10	0	1.8	6.0	0.0
September	6	10	1	3.3	12.5	0.5
October	13	27	5	5.0	15.4	1.5
November	16	54	1	3.6	12.8	0.4
December	24	56	4	7.1	18.3	1.7

The term "smoke" is used to denote all fine suspended impurity collected by the test filter, and the figure is expressed as milligrams per 100 cu. metres.

The figure for sulphur dioxide is expressed in "parts per 100 million parts of air".